SCHOOL OF EDUCATIONAL SCIENCES AND SOCIAL SCIENCES

DEPARTMENT OF PSYCHOLOGY AND SOCIAL WORK

(CIP file- Classification of instructional programmes)

Course unit title:	**Statistics II**		
Course unit code:	**PDIS202**		
Type of course unit:	Compulsory		
Level of course unit:			
Year of study:	2ο		
Semester when the unit is delivered:	4ο		
Number of ECTS credits allocated :	5		
Name of lecturer(s):	Rita Panaoura		
Learning outcomes of the course unit:	With the completion of the module, students should be able to: 1. Schedule and develop a research plan in order to examine specific research questions or hypotheses. 2. Use basic methods of qualitative data analysis. 3. Use basic methods of quantitative data analysis (e.g. ANOVA, ANCOVA, MANOVA) and interpret the respective indices. 4. Examine the validity and the reliability of the data. 5. Use exploratory factor analysis and study the results of the confirmatory factor analysis. 6. Analyse and review critically research studies which use quantitative methods of analyses.		
Mode of delivery:	Lecture Group discussion Discussion with a critical perspective on papers with statistical analyses Application of the processes for analyses by using SPSS at the laboratory Calculation through exercises of many statistical indices.		
Prerequisites:	PDIS103	PDIS103	PDIS103
Course contents:	1. Brief reminder of the statistical methods of analysis they have learned while attending PDIS103.		

	2. Analysis of variance. Independent samples. ANCOVA, MANOVA, MANCOVA 3. Regression analysis. 4. Examine validity and reliability. 5. Exploratory factor analysis. Confirmatory factor analysis. Study of structural modelling and dynamic modelling.
Recommended and/or required reading:	
Textbooks:	• Dancey, C. P., & Reidy, J. (2008). *Statistics without maths for psychology: Using SPSS for Windows*. New York: Pearson Education. • Δαφέρμος, Β. (2005). *Κοινωνική στατιστική με το SPSS*. Θεσσαλονίκη: Ζήτη. Μακράκη, Β. (2005). *Ανάλυση Δεδομένων στην Επιστημονική Έρευνα με τη Χρήση του SPSS*. Αθήνα: Gutenberg.
References:	In Greek • Γναρδέλης, Χ. (2003). *Εφαρμοσμένη στατιστική*. Αθήνα: Παπαζήσης. • Δαμιανού Χ. & Κούτρα Μ. (2000). *Εισαγωγή στη Στατιστική*. Αθήνα: Συμμετρία. • Ρούσσος, Π., Τσαούσης, Γ. (2002). *Στατιστική εφαρμοσμένη στις Κοινωνικές Επιστήμες*. Αθήνα: Ελληνικά Γράμματα. In English • Clarke, G. & Cooke, D. (1983). *A basic course in statistics.* London: Edward Arnold. • Cumming, G. (2011). *Understanding the new statistics: Effect sizes, confidence intervals and meta-analysis*. New York: Routledge Academic. • Hinkle, D., Wiersma, W., & Jurs, S. (1988). *Applied statistics for the behavioral sciences.* Boston: Houghton Mifflin.

	• Kline, R. B. (2010). *Principles and practice of structural equation modeling.* New York: Guilford press.
Planned learning activities and teaching methods:	Lectures discussions, presentations. Group work Individual works by using SPSS at the laboratory. Use of the e-learning platform.
Assessment methods and criteria:	1. Course work - Exercises SPSS 20% - Individual or group work 10 % - Midterm 20 % 2. Final exams 50%
Language of instruction:	In Greek
Work placement(s):	